

Florida Department of Transportation
CADD Manual
Record of Changes Effective Date of October 1, 2015

NOTE: All headers updated to reflect new effective date.

Chapter 1	Introduction
1.1	Minor changes for clarification
1.2	No Modification
1.3	Minor changes for clarification
1.4	Minor changes for clarification
1.5	No Modification
1.6	No Modification
1.7	Minor changes for clarification
1.7.1	Minor changes for clarification
1.7.2	Minor changes for clarification
1.8	No Modification
1.9	No Modification
1.10	No Modification
Chapter 2	Computer Systems
2.1	No Modification
2.2	Office of Information (OIS) changed to Office of Information Technology (OIT)
2.3	Minor changes for clarification OIS changed to OIT
2.4	No Modification
2.5	OIS changed to OIT
Chapter 3	CADD Production Standards
3.1	No Modification
3.2	No Modification
3.3	Minor changes for clarification. Updated definitions to reflect current usage. Added Civil 3D definitions and identified MicroStation definitions.
3.4	No Modification
3.5	Verbiage changed to clarify to current standards. Changed Line (Thickness) to Lineweight.
3.5.1	Verbiage changed to clarify to current standards.
3.5.2	No Modification
3.5.2.1	Verbiage added to clarify to current standards.
3.5.2.2	Verbiage added to clarify to current standards. Changed Working units to Drawing units. Changed "Templates are color table based AutoCAD drawings." to "Templates are style based AutoCAD drawings."
3.6	Verbiage changed to clarify to current standards. Retired Standard Rule: TYP SRD and assigned the OPEN Rule to associated Standard File Names.
3.7	Minor changes for clarification and updated the Standard Design Library/Template tables.
3.7.1	Verbiage changes for clarification and added verbiage for defining Critical and Non-critical design files.
3.7.2	Verbiage changes made to clarify to current standards and updated Color Index table. Identified FDOTColor.tbl in MicroStation.
3.7.3	Verbiage changes made to clarify to current standards.
3.7.4	Verbiage changes made to clarify to current standards.
3.7.4.1	Verbiage changes made to clarify for current standards and updated the Custom Line Styles table to reflect changes made. Many obsolete styles were removed and current displays updated. Added C3D tool: Entity Manager.
3.8	Minor verbiage changes for clarification. Split Traffic Control Cell Library/Block Drawing into: Traffic Control Plans I and Traffic Control Typical. Added AutoCAD Block Drawings: Master_Table_Drawing.dwg and SheetPOR-Consulting.dwg.

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3.9	Added verbiage to clarify for current standards.
3.9.1	Minor changes for clarification
3.9.2	REMOVED - Legacy MicroStation Fonts
3.9.3 3.9.2	Re-numbered and re-named from "Size and Spacing" to "Text Size and Spacing". Added verbiage to clarify.
3.10	Minor verbiage changes for clarification.
3.11	Added new section: AutoCAD/Civil 3D PRINT RESOURCE FILES
Chapter 4	CADD Production Procedures
4.1	Minor verbiage changes for clarification.
4.2	No Modification
4.3	Minor verbiage changes for clarification.
4.4	Removed all verbiage reflecting the obsolete Classical Electronic Delivery and made verbiage changes to clarify current CADD Standards. Removed definition for Project Key. Added definition for Calculations Folder Moved definition for Engineering Data from Chapter 3 to 4
4.5	No Modification
4.6	Made verbiage changes for clarification.
4.7	Made verbiage changes for clarification.
4.7.1	REMOVED - "Electronic Delivery versus Digital Delivery Projects"
4.7.2 4.7.1	Re-numbered "Create Project" and removed all verbiage reflecting the obsolete Classical Electronic Delivery with verbiage changes to clarify current CADD Standards.
4.7.2	Standard Project Folder Structure - Moved from 4.7.4. Added new Sub-Folder: GIS - "Geographic Information System Deliverables Added/removed verbiage to clarify Calculations
4.7.2.1	Added new sub-section: "Calculations Project Folder"
4.7.3 4.7.2.2	Re-numbered "Discipline Sub-Folders" with minor verbiage changes for clarification.
4.7.3.2-	Removed section numbering from "Engineering Data Sub-Folders" to make a bullet under section 4.7.2.2. Made verbiage changes for clarification.
4.7.3.4	Removed section numbering from "Custom Sub-Folders" to make a bullet under section 4.7.2.2. Made verbiage changes for clarification.
4.7.4	Removed section numbering from "Standard Project Folder Structure" - Moved to 4.7.2
4.8	Made verbiage changes for clarification.
4.8.1	Made verbiage changes for clarification.
4.8.2	Made verbiage changes for clarification.
4.8.2.1	Made verbiage changes for clarification.
4.8.2.2	Made verbiage changes for clarification. Removed identification of specific PDF vendor.
4.8.3	Re-named from "Standard File Name Extensions" to "Typical File Name Extensions" and updated Extension listing to current usage.
4.8.4	Minor verbiage changes for clarification.
4.9	Made verbiage changes for clarification. Added Civil 3D reference types.
4.10	Re-named from "CADD File Sharing" to "Sharing CADD Files Between Disciplines" with verbiage changes for clarification.
4.11	Re-named from "Project Indexing and Journaling" to "Project Journal" with content restructured for clarification to current CADD Standards, removing all obsolete Electronic Delivery Indexing verbiage in this section and subsections.
4.11.1	REMOVED - Index Guidelines and Format
4.11.2	REMOVED - Journal Guidelines and Format sub-section numbering and title with content included with 4.11.

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4.12	Removed all verbiage of obsolete Classical Electronic Delivery and made verbiage changes to clarify for the current CADD Standards.
4.12.1	Verbiage corrections made. Added verbiage regarding AutoCAD printing.
4.12.2	Made verbiage changes for clarification.
4.12.3	Minor verbiage changes for clarification.
4.12.4	Made verbiage changes for clarification.
4.12.4.1	Minor verbiage changes for clarification.
4.12.4.2	Minor verbiage changes for clarification.
4.12.5	Made verbiage changes for clarification regarding placement of Professional of Record Note. Added Note regarding the PPM Chapter 30 merging into PPM Chapter 3.
4.13	No Modification
4.13.1	Made Civil 3D Template assignment changes in the Standard File Name table. Removed Standard File Name: RWPR. Updated File Description on: TOPORD
4.13.2	No Modification
4.13.3	Minor verbiage corrections.
4.13.4	Minor verbiage corrections.
4.13.5	REMOVED and moved into Help/Training documentation.
4.14	No Modification
4.14.1	Made Civil 3D Template assignment changes in the Standard File Name table.
4.15	Minor verbiage changes for clarification.
4.15.1	No Modification
4.15.2	Made Civil 3D Template assignment changes in the Standard File Name table.
4.15.3	Added verbiage regarding LandXML
4.15.4	Minor verbiage corrections.
4.15.5	Minor verbiage corrections.
4.15.6	No Modification
4.15.7	No Modification
4.15.8	No Modification
4.16	No Modification
4.16.1	Made Civil 3D Template assignment changes in the Standard File Name table.
4.16.2	Minor verbiage correction.
4.16.3	Minor verbiage correction.
4.16.4	No Modification
4.16.5	No Modification
4.17	No Modification
4.17.1	Made Civil 3D Template assignment changes in the Standard File Name table. Added missing File Name: DRXSRD. Removed erroneous File Name: GCTRRD Corrected Rule assignment for TCTYRD and TYPSRD
4.17.2	Removed verbiage regarding the obsolete Electronic Delivery. Added verbiage and not to clarify quantity calculations.
4.18	Minor verbiage corrections.
4.18.1	Made Civil 3D Template assignment changes in the Standard File Name table.
4.18.2	Minor verbiage changes for clarification.
4.18.3	Minor verbiage changes for clarification.
4.18.4	Minor verbiage changes for clarification.
4.19	Minor verbiage changes for clarification.
4.19.1	Made Civil 3D Template assignment changes in the Standard File Name table.

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4.20	Minor verbiage changes for clarification.
4.20.1	Made Civil 3D Template assignment changes in the Standard File Name table.
4.20.2	Minor verbiage changes for clarification.
4.21	Minor verbiage changes for clarification.
4.21.1	Made Civil 3D Template assignment changes in the Standard File Name table.
4.22	Minor verbiage changes for clarification.
4.22.1	Made Civil 3D Template assignment changes in the Standard File Name table with changes in verbiage for clarification and updating section references in the level/symbology table.
4.22.2	Added verbiage to clarify MicroStation vs AutoCAD Structures resource files.
4.22.3	Removed verbiage regarding the obsolete Electronic Delivery. Added/removed verbiage to clarify quantity calculations.
4.22.4	Added verbiage to clarify MicroStation vs AutoCAD Structures Level and Symbology
4.22.5	No Modification
4.22.5.1	Added section numbering. Removed verbiage regarding scaling and text style.
4.22.5.2	Added section numbering. Removed verbiage regarding scaling and text style.
4.22.6	Reconstructed the first paragraph, moved table and removed the last paragraph and Note.
4.22.7	No Modification
4.22.8	Added verbiage regarding AutoCAD Mtext editor.
4.22.9	Added/removed verbiage to clarify MicroStation vs AutoCAD.
4.22.10	Minor verbiage change
4.22.11	Added Note regarding application of stamp.
4.23	No Modification
4.23.1	Minor verbiage corrections.
4.23.2	No Modification
4.23.3	Renamed from Exchange of Graphic Files to Exchange of Design Files with minor verbiage changes for clarification.
4.23.4	Removed note: "Note - See Section 4.8 of this Chapter for more information about Standard File Names". Made minor verbiage corrections. Made Civil 3D Template assignment changes in the Standard File Name table.
4.23.5	No Modification
4.23.6	Made verbiage changes for clarification. Removed examples of GEOPAK input files.
4.23.6.1	REMOVED "ASCII Header Convention"
4.23.6.2	REMOVED "Format of GEOPAK Station and Offset ASCII File"
4.23.6.3	REMOVED "Format of GEOPAK Northing and Easting ASCII File"
4.23.6.4	REMOVED "GEOPAK Input File Examples"
4.23.7	No Modification
4.24	No Modification
4.24.1	Made minor verbiage corrections. Made Civil 3D Template assignment changes in the Standard File Name table.
4.24.2	Removed verbiage regarding the obsolete Electronic Delivery with minor verbiage corrections for clarification.
4.24.3	Minor verbiage corrections.
4.24.4	Minor verbiage corrections.
4.25	Minor verbiage corrections.
4.25.1	Minor verbiage corrections. Made Civil 3D Template assignment changes in the Standard File Name table.

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4.26	No Modification
4.26.1	Made minor verbiage corrections. Made Civil 3D Template assignment changes in the Standard File Name table.
4.27	Minor verbiage corrections.
4.27.1	Minor verbiage corrections.
4.27.2	No Modification
4.27.3	No Modification
4.27.4	Minor verbiage corrections.
4.27.5	Added more discipline and drawing types.
4.27.6	Added more discipline and drawing types.
4.27.7	No Modification
4.27.8	Minor verbiage corrections.
4.27.9	Minor verbiage corrections.
4.27.10	No Modification
4.27.11	No Modification
4.27.12	Added reference to Section 4.7.4 for Standard Project Folder Structure.
4.27.13	Removed verbiage regarding Electronic Signature.
4.27.14	Restructured verbiage to current workflow.
4.28	Minor verbiage corrections.
4.28.1	Removed verbiage regarding the obsolete Classical Electronic Delivery, restructuring content to clarify current CADD Standards.
4.28.1.1	REMOVED - Classical Electronic Delivery
4.28.1.2	REMOVED - Digital Delivery section title and numbering including content with 4.28.1
4.28.2	No Modification
4.28.3	Removed verbiage regarding the obsolete Classical Electronic Delivery.
4.28.4	Removed verbiage regarding the obsolete Classical Electronic Delivery.
4.28.4.1	REMOVED - "Classical Electronic Delivery"
4.28.4.2	REMOVED - "Digital Delivery" section title and numbering including content with 4.28.4 Removed verbiage regarding the obsolete Classical Electronic Delivery with verbiage changes to reflect current CADD Standards.
Chapter 5	Delivery Procedure
5.1	No Modification
5.2	No Modification
5.3	Removed verbiage regarding the obsolete Classical Electronic Delivery with verbiage changes to reflect current CADD Standards. Added definitions: 3D Model, Automated Machine Guidance (AMG), Digital Terrain Model (DTM), surface. Removed definition for PDF Portfolio
5.4	Updated Reference links and added links to:Construction Project Administration Manual (CPAM) Topic 700-000-000, Federal Highway Administration - 3D Modeling, Florida Permanent Reference Network (FPRN), IdenTrust, LandXML, State Construction - Multiline
5.5	Made verbiage changes for clarification.
5.6	Updated links
5.7	No Modification
5.8	Re-named from "Classical Electronic vs Digital Delivery" to "Digital Delivery". Removed all verbiage regarding the obsolete Classical Electronic Delivery with content reconstructed to clarify current Digital Delivery process.
5.8.1	Content reconstructed to clarify Digital Deliverable recommendations with Basic Delivery Examples.
5.9	REMOVED - "Project Directory Folder/Bid Set Examples"

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5-10	REMOVED - "File Name Conventions for Delivery"
5-10.1	REMOVED - "Classical Electronic Delivery Projects"
5-10.2	REMOVED - "Digital Delivery Projects" section title and numbering with content included with section 5.8.1 with content reconstructed to clarify Deliverable recommendations.
5-11 5.9	Re-numbered "Pre-Production". Made verbiage changes for clarification.
5-12 5.10	Re-numbered "Production". Minor verbiage changes for clarification.
5-12-1	REMOVED - "Classical Electronic Delivery Projects"
5-12-2 5.10.1	Re-numbered and re-named from "Digital Delivery Projects" to "fpid-PLANS.PDF File and Plans Component PDFs" Content reconstructed to clarify required PDF file for Digital Delivery.
5.10.1.1	Added new Section: "Early Work Sheets fo Plan Sets"
5-12-3 5.10.2	Re-numbered with minor verbiage changes for clarification.
5.10.2.1	Added new section numbering for "Delivery Standards for Engineering Data" with changed verbiage regarding LandXML
5.10.2.2	Added new section numbering for " Cross Sections" with changed verbiage regarding LandXML and Multline GEN file. Removed the MultiLine details and examples.
5.10.2.3	Added new section numbering for "Quantity Files" with minor verbiage changes for clarifcartion.
5-12-4 5.10.3	Re-numbered "3D Deliverables - Data for Machine Control in Conctruction" with minor verbiage changes for clarification.
5-12-4-1 5.10.3.1	Re-numbered " Types of Modeling Data Needed" with verbiage changes for clarification of CADD Standards.
5-12-4-2 5.10.3.2	Re-numbered and renamed from "3D Deliverables Supporting AMG for 3D Projects" to "3D Deliverables Supporting AMG for 3D Designed Projects" with verbiage changes for clarification of CADD Standards.
5-12-5 5.10.3.3	Re-numbered "Maximum Corridor Frequency Interval Spacing for 3D Design" with minor verbiage changes for clarification.
5-12-6 5.10.3.4	Re-numbered "Quality Control of Corridor Models and Extracted Surface" with verbiage changes for clarification.
5-12-7 5.10.4	Renumbered "Merging External Project Files" with minor verbiage corrections.
5.10.4.1	Added new section numbering for "CADD System Dependency Files" with minor verbiage corrections.
5.10.4.2	Added new section numbering for " Files from Outside Sources" with minor verbiage corrections.
5.10.4.3	Added new section numbering for "merging Previously Digitally Signed Documents" with minor verbiage corrections.
5-12-8 5.10.5	Re-numbered "Reviewing the Project" Removed all verbiage regarding the obsolete Classical Electronic Delivery with verbiage changes for clarification of CADD Standards.
5-12-9 5.10.6	Re-numbered "Sign and Seal Project Files". Content Reconstructed to reflect the current Digital Delivery.
5-12-9-1	REMOVED - "Classical Electronic Delivery with PEDDS"
5-12-9-2	REMOVED - "Digital Delivery with Digital Signature" section title and numbering including reconstructed content with Section 5.10.6. Removed all verbiage regarding the obsolete Electronic Signature. Moved last paragraph and Note regarding Plans Preparation Manual to new section 5.10.6.3 "Multiple Signature Sheets for Digital Signature".
5.10.6.1	Added new section "Digital Certificates"

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5.12.9.4 5.10.6.2	Renumbered "Managing Digital Certificates"
5.12.9.3 5.10.6.3	Re-numbered "Multiple Signature Sheets for Digital Signature" with verbiage changes for clarification of CADD Standards. Added last paragraph and Note regarding Plans Preparation Manual from old section
5.12.10 5.10.6.4	Re-numbered Securing the Project for Delivery. Removed all verbiage regarding the obsolete Classical Electronic Delivery and PEDDS.
5.10.7	Added new Section: "Legacy Electronic Signature Projects"
5.12.11 5.10.8	Re-numbered "Media Requirements for Delivery" with verbiage changes for clarification. Removed all verbiage regarding the obsolete Classical Electronic Delivery & PEDDS.
5.12.12 5.10.9	Re-numbered and re-named from "Compliance Certification" to "Compliance Certification Checklist Report" Removed all verbiage regarding the obsolete Classical Electronic Delivery & PEDDS and re-numbered checklist. Added verbiage to Note for clarification.
5.13 5.11	Re-numbered "Post-Production" Removed all verbiage regarding the obsolete Classical Electronic Delivery & PEDDS.
5.14 5.12	Re-numbered "Revisions".
5.14.1	REMOVED - "Classical Electronic Delivery"
5.14.2	REMOVED - "Revised Digital Delivery Bid Sets" section title and numbering including restructured content with section 5.12 with verbiage changes to clarify revision process.
5.15 5.13	Re-numbered "Strung Projects" Removed all verbiage regarding the obsolete Classical Electronic Delivery with verbiage changes for clarification. Added verbiage to clarify current delivery requirements with sample image.
5.16 5.14	Re-numbered "Re-Let Projects and Roll Back Revisions" with minor verbiage changes for clarification.
5.17 5.15	Re-numbered "Design Build Projects".
Chapter 6	Support
6.1	Minor verbiage correction.
6.2	No Modification
6.3	Updated reference link.
6.4	Minor verbiage corrections.
6.4.1	Removed last sentence: "This component is coordinated with the district CADD Managers and Office of Information Systems (OIS) and/or OIS Information Technology (IT) personnel assigned to support CADD."
6.4.2	Removed last sentence: "This component is coordinated with assistance from the district CADD Managers and/or OIS IT personnel assigned to support CADD"
6.4.3	Minor verbiage changes for clarification. Changed OIS to OIT.
6.5	Minor verbiage corrections.
6.5.1	Changed OIS to OIT.
6.5.2	No Modification
6.5.3	Minor verbiage corrections.
Chapter 7	Software Development and Distribution
7.1	No Modification
7.2	No Modification
7.3	No Modification

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7.4	Minor verbiage corrections. Changed OIS to Office of Information Technology (OIT).
7.4.1	No Modification
7.5	Minor verbiage corrections.
7.6	Minor verbiage corrections. Added first paragraph from 7.6.1 to content.
7.6.1	REMOVED - "Beta Testing Coordinator"
7.7	No Modification
7.8	Removed verbiage from the beginning of the third paragraph regarding CADD Software distribution notification.
7.9	Removed verbiage regarding CADD software testing. Changed Office of Information Systems (OIS) to OIT.
7.10	Removed last two sentences of first paragraph: "In addition, MicroStation (or AutoCAD) will be used for the production of the Sheet Image files used to represent the plans sheets produced as required by Chapter 3 of the CADD Manual and outlined in Chapter 6 of this document. It is the intention of the Department to print each plan sheet to the appropriate output using the native CADD system's printing engine, so that output may be reproducible as necessary."
Chapter 8	Quality Assurance
8.1	Removed last two paragraphs regarding Critical vs Non-Critical design files.
8.2	Minor verbiage corrections.
8.3	No Modification
8.4	Updated reference links.
8.5	Minor verbiage correction.
8.6	No Modification
8.7	Minor verbiage corrections.
8.8	No Modification
8.9	REMOVED - "Preservation"
8.10	REMOVED - "Delivery Process Management."
8.11 8.9	Re-numbered "Quality Control (QC) - Data Producer's Role" with verbiage changes for clarification.
8.12 8.10	Re-numbered "Quality Assurance (QA) - Control Office Role" with minor verbiage correction.
8.12.1	REMOVED Section Numbering and included content with Section 8.10
Appendix A	CADD Standard Rule Tables
	Throughout all tables:
	- Descriptions were updated for consistency and current application
	- Added Civil 3D Linetype settings
ALGNRD	Removed Levels: PointLocator_ep, TextElevLabel, TextPtLabel, TextSurveyLabel
AUTOSP	Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep
CLIPRD	Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep
DRDTRD	Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep
DREXRD	Updated all Feature Codes Removed Level: ManholeCovUnk_ep Added Levels: ManholeUnknown_ep, TextDrainInvElev_ep, TextDrainLabel_ep
DRMPRD	Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep
DRPRRD	Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep

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DRXSRD	Added Levels: ElecBur_ex, ElecBur_px, FOEElecBur_ex, FOEElecBur_px, FOTBur_ex, FOTBur_px, Manhole_ex, PavtAshphalt_ep, SanitarySewerEff_ex, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep, WaterNP_ex Removed Levels: Pavtasph_ep, Power_ex, Power_px, ShldrBaseTop_px, Utility_er, Utility_pr
DSGNLD	Added Levels: ElecBur_ex, ElecBur_px, FOEElecBur_ex, FOEElecBur_px, FOTBur_ex, FOTBur_px, Manhole_ex, PavtAshphalt_ep, SanitarySewerEff_ex, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep
DSGNLT	Added Levels: PoleElec, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep Removed Levels: PolePower
DSGNRD	Changed the DTM_ex level symbology from Style 1 to Style 2 Added Levels: ElecBur_ex, ElecBur_px, FOEElecBur_ex, FOEElecBur_px, FOTBur_ex, FOTBur_px, Manhole_ex, PavtAshphalt_ep, SanitarySewerEff_ex, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep, WaterNP_ex Removed Levels: PavtAsh_ep, Power_ex, Power_px, ShldrBaseTop_px, Utility_er, Utility_pr
DSGNSG	Added Levels: ElecBur, ElecServ, PMStripe(10-10-20), PMStripe(2-2-2), PMStripe12W(2-4), PMStripe9C(10-30), PMStripeRumbleCL, PMStripeRumbleWL, PMStripeRumbleWR, PMStripeRumbleYL, PMStripeRumbleYR, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep Removed Levels: ElectPS, ElectPSB, ElectPSO, Generator
DSGNSP	Added Levels: PMStripe(2-2-2), PMStripe12W(2-4), TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep
DTMRD	Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep
GDTMRD	Changed the DTM_ex level symbology from Style 1 to Style 2
GEOTECH	Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep Removed Level: Water
GSKWSP	Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep
IRRGD	Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep

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ITSSP	<p>Added Levels: ElecBur, ElecServ, FO_01Blue, FO_01Blue_ep, FO_02Orange, FO_02Orange_ep, FO_03Green, FO_03Green_ep, FO_04Brown, FO_04Brown_ep, FO_05Slate, FO_05Slate_ep, FO_06White, FO_06White_ep, FO_07Red, FO_07Red_ep, FO_08Black, FO_08Black_ep, FO_09Yellow, FO_09Yellow_ep, FO_10Purple, FO_10Purple_ep, FO_11Rose, FO_11Rose_ep, FO_12Aqua, FO_12Aqua_ep, FO_Sheath, FO_SpliceCap, FO_Stripe, FOSheath, FOSpliceCap, FOSTripe, PMStripe(10-10-200, PMStripe(2-2-2), TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep</p> <p>Removed Levels: ElectPS, ElectPSB, ElectPSO, Fiber_01Blue, Fiber_01Blue_ep, Fiber_02Orange, Fiber_02Orange_ep, Fiber_03Green, Fiber_03Green_ep, Fiber_04Brown, Fiber_04Brown_ep, Fiber_05Slate, Fiber_05Slate_ep, Fiber_06White, Fiber_06White_ep, Fiber_07Red, Fiber_07Red_ep, Fiber_08Black, Fiber_08Black_ep, Fiber_09Yellow, Fiber_09Yellow_ep, Fiber_10Purple, Fiber_10Purple_ep, Fiber_11Rose, Fiber_11Rose_ep, Fiber_12Aqua, Fiber_12Aqua_ep, Fiber_Sheath, Fiber_SpliceCap, Fiber_Stripe, Generator, Generator_ep</p>
KEYSHT	<p>Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep</p> <p>Removed Level: Flag</p>
MSARSP	<p>-Added Levels: ElecBur, ElecServ, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep</p> <p>Removed Levels: ElectPS, ElectPSB, ElectPSO, Generator, GuyWire, PolePower, PoleShared, PoleSteelStrain, PoleSeelStrain_ep, PoleTel, PoleUtil, PoleWoodStrain, PoleWoodstrain_ep</p>
OPEN	No Modification
PDXSRD	<p>Added Levels: ElecBur_ex, ElecBur_px, FOEElecBur_ex, FOEElecBur_px, FOTBur_ex, FOTBur_px, PavtAsphalt_ep, SanitarySewerEff_ex, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep, WaterNP_ex</p> <p>Removed Levels: PavtAsph_ep, Power_ex, Power_px, Utility_er, Utility_pr</p>
PLANRD	<p>Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep</p>

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PLPRRD	<p>Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep</p> <p>Removed Levels: Beasons_ep, Capacitor, CATV_ep, CATVAer, CATVBur, CATVBur_ep, CATVCond, CATVCond_ep, CATVMisc, CATVMisc_ep, Conduit, Conduit_ep, DummyChains_ep, ElecMeter, ElectPS, ElectPSB, ElectPSO, ElectServWire, FireHydrant, FireHydrant_ep, FloodLight_ep, FOCBur, Gas, Gas_ep, GasMeter, GasMisc, GasReg_ep, Gauges, Gauges_ep, Generator, Guy_ep, JunctBox, JunctBox_ep, JunctBoxA, JunctBoxA_ep, LiteCond_ep, Luminaire, ManholeCover_ep, ManholeCovUnk_ep, ManholeCovW_ep, ManholeElec, ManholeElec_ep, ManholeGas, ManholeGas_ep, ManholeSS, ManholeSS_ep, ManholeSW, ManholeSW_ep, ManholeTel, ManholeTel_ep, MeterElec_ep, MeterElecUG_ep, MeterGas_ep, MeterUnk, MeterUnk_ep, MeterWater_ep, Oil, PatternLines_ep, PedSignal_ep, Pipeculvert_ep, PointLocator_ep, PolePower, PolePower_ep, PoleShared, PoleSteelStrain, PoleSteelStrain_ep, PoleTel, PolePowerTel_ep, PoleUtil, PoleWoodStrain, PoleWoodStrain_ep, Power_ep, PowerBur_ep, PowerBurCond_ep, PowerCapcUG_ep, PowerCond_ep, PowerElecOut_ep, PowerMisc, PowerMisc_ep, PullBox_ep, PumpNonPet, PumpNonPet_ep, Sanitary_ep, SanitaryCumpSta_ep, SanitaryFM, SanitaryFM_ep, SanitaryMisc_ep, SanitarySewer, SanitarySewerDSta, SanitarySewerEff_ep, SanitarySewerMisc_ep, SateDish_ep, Signal_ep, SignalLoop_ep, SignalMisc_ep, SignalSupport_ep, SignMult_ep, SignSingle_ep, SignSupport_ep, SpanWire_ep, Sprinkler_ep, steam, Switchgear, Tele_ep, TeleAer, TeleBur, TeleBur_ep, TeleMisc, TeleMisc_ep, Tower_ep, TranformerAer, TranformerBur, TransmissionAer, TransmissionBur, TransmissionT, UtilMisc_ep, UtilsMisc, Valve, Valve_ep, ValveCover, ValveCover_ep, ValveCvrEff, ValveCvrEff_ep, ValveCvrGas, ValveCvrGas_ep, ValveCvrSewer, ValveCvrSewer_ep, ValveCvrWater, ValveCvrWater_ep, ValveCvrWaterNP_ep, ValveGas, ValveGas_ep, ValveSewer, ValveSewer_ep, ValveWater, ValveWater_ep, ValveWaterNP, ValveWaterNP_ep, Vault_ep, Vaults, VaultsRW, Vent, Vent_ep, VentGas, VentGas_ep, VentSewer, VentSewer_ep, Water, Water_ep, WaterFct, WaterFilter, WaterMeter, WaterNusc_ep, WaterNP, Well, WellMon, Wells_ep, XSPT_ep</p>
QTDSRD	<p>Added Levels: AdvWarnVehicle, Barricade_px, BarricadeIII, BarricadeIII_px, ChannelDev, ChannelDevPed_px, Drum_px, Flagman, PavtAsphalt_ep, PavtConcrete_ep, PavtMilling, PMStripe(10-10-20), PMStripe(2-2-2), PMStripe12W(2-4), PMStripe9C(10-30), PMStripeRumbleCL, PMStripeRumbleWL, PMStripeRumbleWR, PMStripeRumbleYL, PMStripeRumbleYR, TextDrainInvElev_ep, SignalWorkZone, SignWorkZone, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep, TrafficControlMisc, TubularMarker_px, WallTempBarrier_px</p> <p>Removed Levels: Barricade, Barricade1, Barricade2, Barricade3, Barricade4, FlashingLight, PavtAsph_ep, Pavtconc_ep, TCZSign, TCZSign1, TCZSign2, TCZSign3</p>
RDXSRD	<p>Added Levels: ElecBur_ex, ElecBur_px, FOEElecBur_ex, FOEElecBur_px, FOTBur_ex, FOTBur_px, Manhole_ex, PavtAsphalt_ep, SanitarySewerEff_ex, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep, WaterNP_ex</p> <p>Removed Levels: PavtAsph_ep, Power_ex, Power_px, ShldrBaseTop_px, Utility_er, Utility_pr</p>

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RDXSSP	<p>Added Levels: ElecBur_ex, ElecBur_px, FOEElecBur_ex, FOEElecBur_px, FOTBur_ex, FOTBur_px, Manhole_ex, PavtAsphalt_ep, PMStripe(2-2-20), PMStripe12wW(2-4), PMStripeRumbleCL, PMStripeRumbleWL, PMStripeRumbleWR, PMStripeRumbleYL, PMStripeRumbleYR, SanitarySewerEff_ex, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep, WaterNP_ex Removed Levels: PavtAsph_ep, PolePower, PoleTel, PoleUtil, Power_ex, Power_px, ShldrBaseTop_px, Utility_er, Utility_pr</p>
RWDTRD	<p>Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep</p>
RWENG10	<p>Added Levels: TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep</p>
SPST10	<p>No Modification</p>
SURVRD	<p>Added new Standard Rule File: Survey Development Model</p>
TCDSRD	<p>Added Levels: AdvWarnVehicle, Barricade_px, BarricadeIII, BarricadeIII_px, ChannelDev, ChannelDevPed_px, Cone_px, Drum_px, Flagman, PMStrip(2-2-2), PMStripe12W(2-4), PMStripeRumbleCL, PMStripeRumbleWL, PMStripeRumbleWR, PMStripeRumbleYL, PMStripeRumbleYR, PoleElec, SignalWorkZone, SignWorkZone, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep, TrafficControlMisc, TubularMarker, WallTempBarrier_ep Removed Levels: Barricade, Barricade1, Barricade2, Barricade3, Cone, Drum, Flag, FlashingLight, PolePower, TCZMisc, TCZSign, TCZSign1, TCZSign2, TCZSign3,</p>
TOPORD	<p>Updated all Feature Codes Added Levels: PavtAsphalt_ep, PavtConcrete_ep, TextTopoLabel_ep, Removed Levels: BaselineSurvey, BLSurveyCntl_ep, BLSurveyField_ep, BLSurveySymbL_ep, CurveDataLabel.dp, PavtAsph_ep, PavtConc_ep, StationTicL_dp, StationTicS_dp, TextBLStation, TextElevLabel,</p>
TYPDRD	<p>Added Levels: AdvWarnVehicle, Barricade_px, BarricadeIII, BarricadeIII_px, ChannelDev, ChannelDevPed_px, Cone_px, Drum_px, ElecBur_px, Flagman, PavtAsphalt_ep, PMStripe(10-10-20), PMStripe(2-2-2), PMStripe12W(2-4), PMStripe9C(10-30), PMStripeRumbleCL, PMStripeRumbleWL, PMStripeRumbleWR, PMStripeRumbleYL, PMStripeRumbleYR, SignalWorkZone, SignWorkZone, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep, TrafficControlMisc, TubularMarker, WallTempBarrier_ep Removed Levels: Barricade, Barricade1, Barricade2, Barricade3, Barricade4, Cone, Drum, FlashingLight, FOCBur_px, PavtAsph_ep, PolePower, PoleShared, PoleSteelStrain, PoleSteelStrain_ep, PoleTel, PoleUtil, PoleWoodStrain, PoleWoodStrain_ep, Power_px, ShldrBaseTop_px, Utility_er, Utility_pr, Water, Water_ep</p>
TYP SRD	<p>Standard Rule Removed</p>

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UTADRD	Updated all Feature Codes Added Levels: Casing, CATVAer_ep, CATVBurB_ep, CATVBurC_ep, CATVBurD_ep, CATVCondBurB_ep, CATVCondBurC_ep, CATVCondBurD_ep, ConduitB_ep, ConduitC_ep, ConduitD_ep, ElecAer_ep, ElecAerPri_ep, ElecAerSec_ep, ElecBur, ElecBurB_ep, ElecBurC_ep, ElecBurCap_ep, ElecBurD_ep, ElecBurPriB_ep, ElecBurPriC_ep, ElecBurPriD_ep, ElecBurSecB_ep, ElecBurSecC_ep, ElecBurSecD_ep, ElecMisc, ElecMisc_ep, ElecOutlet, ElecOutlet_ep, ElecServ, FOCBurB_ep, FOCBurC_ep, FOCBurD_ep, FOEElecAer, FOEElecAer_ep, FOEElecBur, FOEElecBurB_ep, FOEElecBurC_ep, FOEElecBurD_ep, FOTAer, FOTAer_ep, FOTBur, FOTBurB_ep, FOTBurC_ep, FOTBurD_ep, GasB_ep, GasC_ep, GasD_ep, GuyWire_ep, Manhole_ex, Manhole_px, ManholeCOMM, ManholeCOMM_ep, ManholeUnknown, ManholeUnknown_ep, ManholeWater, ManholeWater_ep, MeterElec, MeterElecBur_ep, MeterGas, MeterWater, Oil_B_ep, Oil_C_ep, Oil_D_ep, PipeEncaseB_ep, PipeEncaseC_ep, PipeEncaseD_ep, PoleElec, PoleElec_ep, Pump, SanitaryFM_B_ep, SanitaryFM_C_ep, SanitaryFM_D_ep, SanitarySewerB_ep, SanitarySewerC_ep, SanitarySewerD_ep, SanitarySewerDSta, SanitarySewerDSta_ep, SanitarySewerEff_ex, SanitarySewerMisc_ep, SteamB_ep, SteamC_ep, SteamD_ep, SU_QLB_ep, SU_QLC_ep, SU_QLD_ep, TeleBurB_ep, TeleBurC_ep, TeleBurD_ep, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep, ValveWaterNP, WaterB_ep, WaterC_ep, WaterD_ep, WaterNP, WaterNP_B_ep, WaterNP_C_ep, WaterNP_D_ep, WaterNP_ex, Well_ep, WellMon_ep Removed Levels: ElecMeter, ElecPS, ElecPSB, ElecPSO, FOBur_ep, GasMeter, Guys_ep, ManholeCover_ep, ManholeCovUnk_ep, ManholeCovW_ep, ManholeCvrUnk, MeterElecUG_ep, PolePower, PolePower_ep, Power_ep, PowerBur_ep, PowerBurCond_ep, PowerCapcUG_ep, PowerCond_ep, PowerElecOut_ep, PowerMisc, PowerMisc_ep, Sanitary_ep, SanitaryFM_ep, SanitaryMisc_ep, Tele_ep, TeleBur_ep, Water_ep, WaterMeter, Wells_ep
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UTEXRD

Updated all Feature Codes

Added Levels: CATVAer_ep, CATVCondBurB_ep, CATVCondBurC_ep, CATVCondBurD_ep, ElecAer_ep, ElecAer_ep, ElecAerPri_ep, ElecAerSec_ep, ElecBurB_ep, ElecBurC_ep, ElecBurCap_ep, ElecBurD_ep, ElecBurPriB_ep, ElecBurPriC_ep, ElecBurPriD_ep, ElecBurSecB_ep, ElecBurSecC_ep, ElecBurSecD_ep, ElecMisc_ep, ElecMisc_ep, ElecMisc_ep, ElecMisc_ep, ElecMisc_ep, ElecOutlet_ep, FOCAer_ep, FOCBurB_ep, FOCBurB_ep, FOCBurB_ep, FOCBurC_ep, FOCBurC_ep, FOCBurC_ep, FOCBurD_ep, FOCBurD_ep, FOCBurD_ep, FOCBurD_ep, FOEElecAer_ep, FOEElecBurB_ep, FOEElecBurC_ep, FOEElecBurD_ep, FOTAer_ep, FOTBurB_ep, FOTBurC_ep, FOTBurD_ep, GuyWire_ep, GuyWire_ep, GuyWire_ep, Manhole_px, ManholeCOMM_ep, ManholeUnknown_ep, ManholeWater_ep, MeterElecBur_ep, PoleElec_ep, PoleElec_ep, PoleElec_ep, PoleElec_ep, SanitarySewerB_ep, SanitarySewerC_ep, SanitarySewerD_ep, SanitarySewerDSta_ep, SanitarySewerMisc_ep, SanitarySewerMisc_ep, SanitarySewerMisc_ep, TeleAer_ep, TextSubUtilLabel_ep, TextUtilLabel_ep, Well_ep, WellMon_ep

Removed Levels: CATV_ep, CATVBur_ep, CATVCond_ep, CATVCondB_ep, CATVCondC_ep, CATVCondD_ep, Conduit_ep, FOAer_ep, FOBur_ep, FOBur_ep, FOBur_ep, FOBurB_ep, FOBurB_ep, FOBurB_ep, FOBurB_ep, FOBurC_ep, FOBurC_ep, FOBurC_ep, FOBurD_ep, FOBurD_ep, FOBurD_ep, FOPower_ep, FOPowerB_ep, FOPowerC_ep, FOPowerD_ep, Guys_ep, ManholeCover_ep, ManholeCovUnk_ep, ManholeCovW_ep, MeterElecUG_ep, Oil_ep, PipeEncase_ep, PolePower_ep, Power_ep, PowerBur_ep, PowerBurB_ep, PowerBurC_ep, PowerBurD_ep, PowerBurCond_ep, PowerElecOut_ep, PowerCapcUG_ep, PowerCond_ep, PowerMisc_ep, Sanitary_ep, SanitaryB_ep, SanitaryC_ep, SanitaryD_ep, SanitaryDumpSta_ep, SanitaryFM_ep, SanitaryMisc_ep, Steam_ep, Tele_ep, TeleBur_ep, Water_ep, WaterNP_ep, Wells_ep

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UTPRRD

Added Levels: CATVAer_ep, CATVBurB_ep, CATVBurC_ep, CATVBurD_ep, CATVCondBurB_ep, CATVCondBurC_ep, CATVCondBurD_ep, ConduitB_ep, ConduitC_ep, ConduitDp, ElecAer, ElecAer_ep, ElecAerPri_ep, ElecAerSec_ep, ElecBur, ElecBurB_ep, ElecBurC_ep, ElecBurCap_ep, ElecBurD_ep, ElecBurPriB_ep, ElecBurPriC_ep, ElecBurPriD_ep, ElecBurSecB_ep, ElecBurSecC_ep, ElecBurSecD_ep, ElecMisc, ElecMisc_ep, ElecOutlet, ElecOutlet_ep, ElecServ, FOCBurB_ep, FOCBurC_ep, FOCBurD_ep, FOEElecAer, FOEElecAer_ep, FOEElecBur, FOEElecAer_ep, FOEElecBur, FOEElecBurB_ep, FOEElecBurC_ep, FOEElecBurD_ep, FOTAer, FOTAer_ep, FOTBur, FOTBurB_ep, FOTBurC_ep, FOTBurD_ep, Gas_ep, GasB_ep, GasC_ep, GasD_ep, GasMisc, GuyWire_ep, Manhole_ex, Manhole_px, ManholeCOMM, ManholeCOMM_ep, ManholeUnknown, ManholeUnknown_ep, ManholeWater_ep, MeterElec, MeterElecBur_ep, MeterGas, MeterWater, Oil_B_ep, Oil_C_ep, Oil_D_ep, PipeEncaseB_ep, PipeEncaseC_ep, PipeEncaseD_ep, PoleElec, PoleElec_ep, Pump, PumpNonPet, SanitaryFM_B_ep, SanitaryFM_C_ep, SanitaryFM_D_ep, SanitarySewerB_ep, SanitarySewerC_ep, SanitarySewerD_ep, SanitarySewerDSta_ep, SanitarySewerEff_ex, SanitarySewerMisc_ep, SteamB_ep, SteamC_ep, SteamD_ep, SU_QLB_ep, SU_QLC_ep, SU_QLD_ep, TeleAer_ep, TeleBurB_ep, TeleBurC_ep, TeleBurD_ep, TextDrainInvElev_ep, TextDrainLabel_ep, TextSubUtilLabel_ep, TextTopoLabel_ep, TextUtilLabel_ep, ValveWaterNP, WaterB_ep, WaterC_ep, WaterD_ep, WaterNP_B_ep, WaterNP_C_ep, WaterNP_D_ep, WaterNP_ex, Well_ep, WellMon_ep

Removed Levels: CATV_ep, CATVBur_ep, CATVCond_ep, Conduit_ep, ElecMeter, ElecPS, ElecPSB, ElecPSO, FOBur_ep, GasMeter, Guys_ep, ManholeCover_ep, ManholeCovUnk_ep, ManholeCovW_ep, ManholeCvrUnk, MeterElecUG_ep, PolePower, PolePower_ep, Power_ep, PowerBur_ep, PowerBurCond_ep, PowerCapcUG_ep, PowerCond_ep, PowerEleOut_ep, PowerMisc, PowerMisc_ep, Sanitary_ep, SantaryDumpSta_ep, SanitaryFM_ep, SanitaryMisc_ep, Tele_ep, TeleBur_ep, Water_ep, WaterMeter, Wells_ep
